

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-015693**Date Inspected:** 11-Jul-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Le Zhi Jiang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this date Caltrans Office of Structural Material (OSM) Quality Assurance (QA) Inspector, D.Sukanthan was present during the time noted above for observations relative to the work being performed.

OBG # BAY 3

This QA inspector received ZPMC Non Destructive Testing (NDT) notification 06171 to perform Magnetic particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control Personnel. This QA Inspector generated a Magnetic particle Test report for this date. The member is identified as Traveler Rail. The weld tested is identified as follows:

(10TR3-015-008,009,010,011,012,013,006,014)  
(11TR2-013-008,009,010,011,012,013,006,014)  
(10TR3-011-008,009,010,011,012,013,006,014)  
(10TR3-034-008,009,010,011,012,013,006,014)  
(11TR1-021-008,009,010,011,012,013,006,014)  
(11TR1-007-008,009,010,011,012,013,006,014)  
(10TR3-005-008,009,010,011,012,013,006,014)

This QA Inspector randomly observed the following work in progress:

OBG # BAY 1

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## WELDING INSPECTION REPORT

( Continued Page 2 of 3 )

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This QA observed ZPMC qualified welding personnel identified as 216575 perform Flux Cored Arc Welding (FCAW) Process on weld joint 20TR2-042-011. ZPMC Quality Control Personnel (QC) identified as Mr. Ai Wei was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2232-TC-U5-F.

This QA observed ZPMC qualified welding personnel identified as 203710 perform Flux Cored Arc Welding (FCAW) Process on weld joint 20TR2-041-011. ZPMC Quality Control Personnel (QC) identified as Mr. Ai Wei was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2232-TC-U5-F.

### OBG # BAY 2

This QA observed ZPMC qualified welding personnel identified as 066912 perform Flux Cored Arc Welding (FCAW) Process on weld joint FB3236-001-047,048. ZPMC Quality Control Personnel (QC) identified as Mr. Zhu Jun was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132-3.

This QA observed ZPMC qualified welding personnel identified as 066439 perform Flux Cored Arc Welding (FCAW) Process on weld joint FB3205-001-003,004. ZPMC Quality Control Personnel (QC) identified as Mr. Zhu Jun was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132-3.

This QA observed ZPMC qualified welding personnel identified as 045209 perform Flux Cored Arc Welding (FCAW) Process on weld joint FB3194-001-039,040. ZPMC Quality Control Personnel (QC) identified as Mr. Zhu Jun was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132-3.

### OBG # BAY 3

This QA observed ZPMC qualified welding personnel identified as 206623 perform Flux Cored Arc Welding (FCAW) Process repair welding on weld joint FB3110-001-046. ZPMC Quality Control Personnel (QC) identified as Mr. Zhang Yaxu was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-345-FCAW-3G (3F)-Repair and Weld Repair Report B-WR13919.

This QA observed ZPMC qualified welding personnel identified as 208035 perform Flux Cored Arc Welding (FCAW) Process on weld joint FB3112-001-006,007. ZPMC Quality Control Personnel (QC) identified as Mr. Zhang Yaxu was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2132-3.

This QA observed ZPMC qualified welding personnel identified as 044824 perform Flux Cored Arc Welding (FCAW) Process on weld joint EP3025-001-003,004. ZPMC Quality Control Personnel (QC) identified as Mr. Zhang Yaxu was present to monitor the welding process. The welding parameters as measured using QC's

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## WELDING INSPECTION REPORT

( Continued Page 3 of 3 )

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calibrated instruments appeared to be in general compliance with WPS-B-T-2132-3.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

As mention above

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-00422372, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Sukanthan,Dhanasingh	Quality Assurance Inspector
<b>Reviewed By:</b>	Hall,Steven	QA Reviewer

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